UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,605	05 10/03/2006 Karl-Heinz Schmezer		605127	1531
	7590 12/23/200 UCKETT DRAUDT	EXAMINER		
SCHUBERTST			BOWES, STEPHEN M	
WUPPERTAL, GERMANY	42289		ART UNIT	PAPER NUMBER
			3657	
			MAIL DATE	DELIVERY MODE
			12/23/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applica	ation No.	Applicant(s)	Applicant(s)			
		10/599	,605	SCHMEZER, KARL-HEINZ				
Office Action Summary			ier	Art Unit				
		STEPH	EN BOWES	3657				
Period fo	The MAILING DATE of this commun or Reply	nication appears on	the cover sheet with t	the correspondence ac	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) file	ed on 03 October 20	006					
·								
′=		cation is in condition for allowance except for formal matters, prosecution as to the merits is						
٥,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4) Claim(s) 9-16 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 9-16 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.  Application Papers								
9) 🗌 '	The specification is objected to by the	ne Examiner.						
10)🛛	The drawing(s) filed on <u>10-3-2006</u> is	/are: a)⊠ accepte	d or b)⊡ objected to	b by the Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2)  Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 10-3-2006.	PTO-948)	Paper No(s)/M	nmary (PTO-413) fail Date mal Patent Application				

Art Unit: 3657

### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 9-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicant defines the same physical object as distinct elements. Examples include chain links and swivel elements, thrust bolts and drive members. Applicant also claims "an adjusting force...the chain links are moved into a compression-resistant position and returned from the compression-resistant position". Although this suggests the sprocket makes the chain incompressible as it passes over, the opposite is true. The chain only bends in one direction and that is when it passes over the sprocket.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 9-12 and 15-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Schmezer (EP 1,382,882).

As per claim 9, Schmezer discloses a compression-resistant drive chain (Abstract) for an adjusting device (Abstract), the drive chain comprising: chain links (6,

Art Unit: 3657

7, Fig. 4); connecting plates (21) pivotably connecting the chain links to one another; wherein the chain links are comprised of swivel elements (6, 7) having bearing surfaces (A) that are at least partially complementary in a longitudinal chain direction and have sliding surfaces (G) that form at least over portions thereof an arc contour, respectively; a sprocket wheel (5); thrust bolts (14) oriented transversely to the longitudinal chain direction, wherein the sprocket wheel acts through the thrust bolts on the chain links (14) and wherein the thrust bolts engage between two of said swivel elements neighboring one another (14), respectively, in an area of the arc contours, wherein two of the arc contours are arranged opposed to one another for receiving the thrust bolts, respectively (8); wherein an adjusting force of the sprocket wheel is introduced through the thrust bolts into the drive chain in such a way that the chain links are moved into a compression-resistant position and returned from the compression-resistant position (Fig. 1, 4).

As per claim 10, Schmezer discloses the compression-resistant drive chain according to claim 9, wherein the thrust bolts, in an advancing direction and in a return direction of the drive chain, each define a sliding surface pair (G, [0020]), wherein the thrust bolts each have a circumferential surface resting at least partially against one of said two opposed arc contours (8), wherein the arc contours are concave (8, Fig. 10), and wherein the adjusting force of the sprocket wheel is reversible within the drive chain in said sliding surface pair (Fig. 1, 4).

As per claim 11, Schmezer discloses the compression-resistant drive chain according to claim 10, wherein the thrust bolts have ends connected by the connecting

Application/Control Number: 10/599,605

Art Unit: 3657

plates (21), wherein the swivel elements are arranged in pairs so as to form two parallel rows in the longitudinal chain direction (Fig. 13), wherein the sprocket wheel is placed between the two rows of the swivel elements against at least one of the thrust bolts transversely to the longitudinal chain direction (Fig. 15, 24).

Page 4

As per claim 12, Schmezer discloses the compression-resistant drive chain according to claim 10, wherein said two opposed arc contours provide a substantially wear-free and friction-free support for the thrust bolts, respectively ([0027]).

As per claim 15, Schmezer discloses the compression-resistant drive chain according to claim 10, wherein the bearing surfaces of the swivel elements are placed against one another in the longitudinal chain direction (Fig. 13) and have partial areas (G, Fig. 10; G', Fig. 11), respectively, that adjoin in a common plane the arc contours and have a complementary shape (G, G'), which partial areas in the compression-resistant position of the drive chain are placed against one another as a positive-locking profile (Fig. 21).

As per claim 16, Schmezer discloses the compression-resistant drive chain according to claim 9, further comprising spacers (25, 25', Fig. 22) that connect the swivel elements in a direction transversely to the longitudinal chain direction (25, 25').

# Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 3657

6. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schmezer (EP 1,382,882) in view of Springman (US 4,930,620).

As per claim 13, Schmezer discloses the compression-resistant drive chain according to claim 10. However, Schmezer fails to disclose sliding elements, matched to a shape of the arc contours, provided in the area of the sliding surface pair between the thrust bolts and the swivel elements, respectively. Springman discloses an article carrying member for a conveyor chain comprising disclose sliding elements (52, Fig. 2), matched to a shape of the arc contours, provided in the area of the sliding surface pair between the thrust bolts and the swivel elements, respectively (52). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the pins of Schmezer by enclosing them in split sleeves as taught by Springman in order to reduce friction.

As per claim 14, Schmezer and Springman disclose the compression-resistant drive chain according to claim 13. Springman further discloses wherein the sliding elements are sleeve segments each having an inner circular arc-shaped wall surface placed onto the thrust bolts (52), respectively, and each having an outer U-shaped profile (52) comprising a basic arc placed against the arc contour and further comprising legs (52) placed laterally against the swivel elements.

### Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - a. Chain with U-sleeve

Art Unit: 3657

i. Christmann et al. (US 5702044), 12/30/1997.

- ii. Cheesman et al. (US 5222920), 6/29/1993.
- iii. Michalik (US 4388990), 6/21/1983.
- b. Compression chain
  - iv. Worsley (US 5042244), 8/27/1991.
  - v. Patrignani (US 3831455), 8/27/1974.
  - vi. Nagin (US 3672237), 6/27/1972.
  - vii. Curran (US 3575283), 4/20/1971.
  - viii. Herbert et al. (US 3157376), 11/17/1964.
  - ix. Gilbert (US 2975807), 3/21/1961.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to STEPHEN BOWES whose telephone number is (571) 270-5787. The examiner can normally be reached on M-F 7:30am-5:00pm, alternating Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Siconolfi can be reached on (571) 272-7124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3657

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bradley T King/ Primary Examiner, Art Unit 3657

/STEPHEN BOWES/ Examiner, Art Unit 3657